

CLAIMS

1. . A radio transmission apparatus that measures channel quality between the radio transmission apparatus and a communicating party and transmits to the 5 communicating party a CQI (Channel Quality Indicator) that represents a measurement value;

10 a memory that stores CQI update cycle information representing an update cycle of the CQI and CQI repetition count information representing how many consecutive times the same CQI is transmitted; and

15 a CQI transmitter that, when a transmission timing of a CQI that is based on the CQI update cycle information and a transmission timing of a CQI that is based on the CQI repetition count information overlap, transmits the CQI based on the repetition count information to the communicating party with priority.

2. The radio transmission apparatus of claim 1, wherein, when the transmission timing of the CQI 20 based on the CQI update cycle information and the transmission timing of the CQI based on the CQI repetition count information overlap, the radio transmission apparatus reports to a higher apparatus that the CQI update cycle information and CQI repetition count information 25 in use have an error, receives reconfigured CQI update cycle information and CQI repetition count information from the higher apparatus and stores these information

in the memory; and

wherein the CQI transmitter transmits the CQI to the communicating party based on the reconfigured CQI update cycle information and CQI repetition count 5 information.

3. The radio transmission apparatus of claim 1, wherein, when the transmission timing of the CQI based on the CQI update cycle information and the 10 transmission timing of the CQI based on the CQI repetition count information overlap, the radio transmission apparatus reports to the communicating party that the CQI update cycle information and CQI repetition count information in use have an error, receives reconfigured 15 CQI update cycle information and CQI repetition count information from the communicating party and stores these information in the memory; and

wherein the CQI transmitter transmits the CQI to the communicating party based on the reconfigured CQI 20 update cycle information and CQI repetition count information.

4. The radio transmission apparatus of claim 1, wherein, when the transmission timing of the CQI based on the CQI update cycle information and the 25 transmission timing of the CQI based on the CQI repetition count information overlap, the radio transmission

apparatus reconfigures the CQI update cycle information and CQI repetition count information anew such that the transmission timings do not overlap, stores the reconfigured CQI update cycle information and CQI 5 repetition count information in the memory, and reports these new information to the communicating party; and wherein the CQI transmitter transmits the CQI to the communicating party based on the reconfigured CQI update cycle information and CQI repetition count 10 information.

5. The radio transmission apparatus of one of claims 2 to 4, wherein, of the CQI update cycle information and the CQI repetition count information, the CQI update cycle 15 information alone is reconfigured.

6. A radio reception apparatus that receives a CQI (Channel Quality Indicator) representing channel quality between the radio reception apparatus and a communicating 20 party and decodes the CQI, comprising:

a memory that stores CQI update cycle information representing an update cycle of the CQI and CQI repetition count information representing how many consecutive times the same CQI is transmitted; and

25 a CQI receiver and decoder that, when a reception timing of a CQI that is based on the CQI update cycle information and a transmission timing of a CQI that is

based on the CQI repetition count information overlap, receives and decodes the CQI based on the CQI repetition count information with priority.

5 7. The radio reception apparatus of claim 6,
wherein, when the reception timing of the CQI based
on the CQI update cycle information and the reception
timing of the CQI based on the CQI repetition count
information overlap, the radio reception apparatus
10 reports to a higher apparatus that the CQI update cycle
information and CQI repetition count information in use
have an error, receives reconfigured CQI update cycle
information and CQI repetition count information from
the higher apparatus and stores these information in the
15 memory; and

wherein the CQI receiver and decoder receives and
decodes the CQI based on the reconfigured CQI update cycle
information and CQI repetition count information.

20 8. The radio reception apparatus of claim 6,
wherein, when the reception timing of the CQI based
on the CQI update cycle information and the reception
timing of the CQI based on the CQI repetition count
information overlap, the radio reception apparatus
25 reconfigures the CQI update cycle information and CQI
repetition count information anew such that the reception
timings do not overlap, stores the reconfigured CQI update

cycle information and CQI repetition count information in the memory, and reports these new information to the communicating party; and

5 wherein the CQI receiver and decoder receives and decodes the CQI based on the reconfigured CQI update cycle information and CQI repetition count information.

9. The radio reception apparatus of one of claims 7 and 8, wherein, of the CQI update cycle information and 10 the CQI repetition count information, the CQI update cycle information alone is reconfigured.

10. A communication terminal apparatus comprising the radio transmission apparatus of claim 1.

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11. A radio base station apparatus comprising the radio reception apparatus of claim 6.

12. A radio communication system comprising a 20 communication terminal apparatus that transmits a CQI based on predetermined CQI update cycle information and CQI repetition count information, and a radio base station apparatus that receives and decodes the CQI based on the predetermined CQI update cycle information and CQI 25 repetition count information,

wherein the communication terminal apparatus transmits the CQI that is based on the CQI repetition

count information with priority and the radio base station apparatus receives and decodes the CQI based on the CQI repetition count information with priority.

5 13. The radio communication system of claim 12, further comprising a higher apparatus that controls a plurality of radio base station apparatuses,

wherein, when a transmission timing of a CQI that is based on the CQI update cycle information and a 10 transmission timing of a CQI that is based on the CQI repetition count information overlap, or when a reception timing of the CQI based on the CQI update cycle information and a reception timing of the CQI based on the CQI repetition count information overlap, the upper apparatus 15 receives information indicating the overlap from the communication terminal apparatus or the radio base station apparatus and reports back new CQI update cycle information and CQI repetition count information to the communication terminal apparatus or the radio base 20 station apparatus.

14. A radio transmission method that measures channel quality to a communicating party and transmits to the communicating party a CQI (Channel Quality Indicator) 25 that represents a measurement value, whereby, when a transmission timing of a CQI that is based on predetermined CQI update cycle information and a transmission timing

of a CQI that is based on CQI repetition count information overlap, the CQI based on the CQI repetition count information is transmitted with priority.

5 15. A radio reception method that receives a CQI (Channel Quality Indicator) representing channel quality between the radio reception apparatus and a communicating party and decodes the CQI, whereby, when a reception timing of a CQI that is based on predetermined CQI update cycle

10 information and a reception timing of a CQI that is based on CQI repetition count information overlap, the CQI based on the CQI repetition count information is received and decoded with priority.